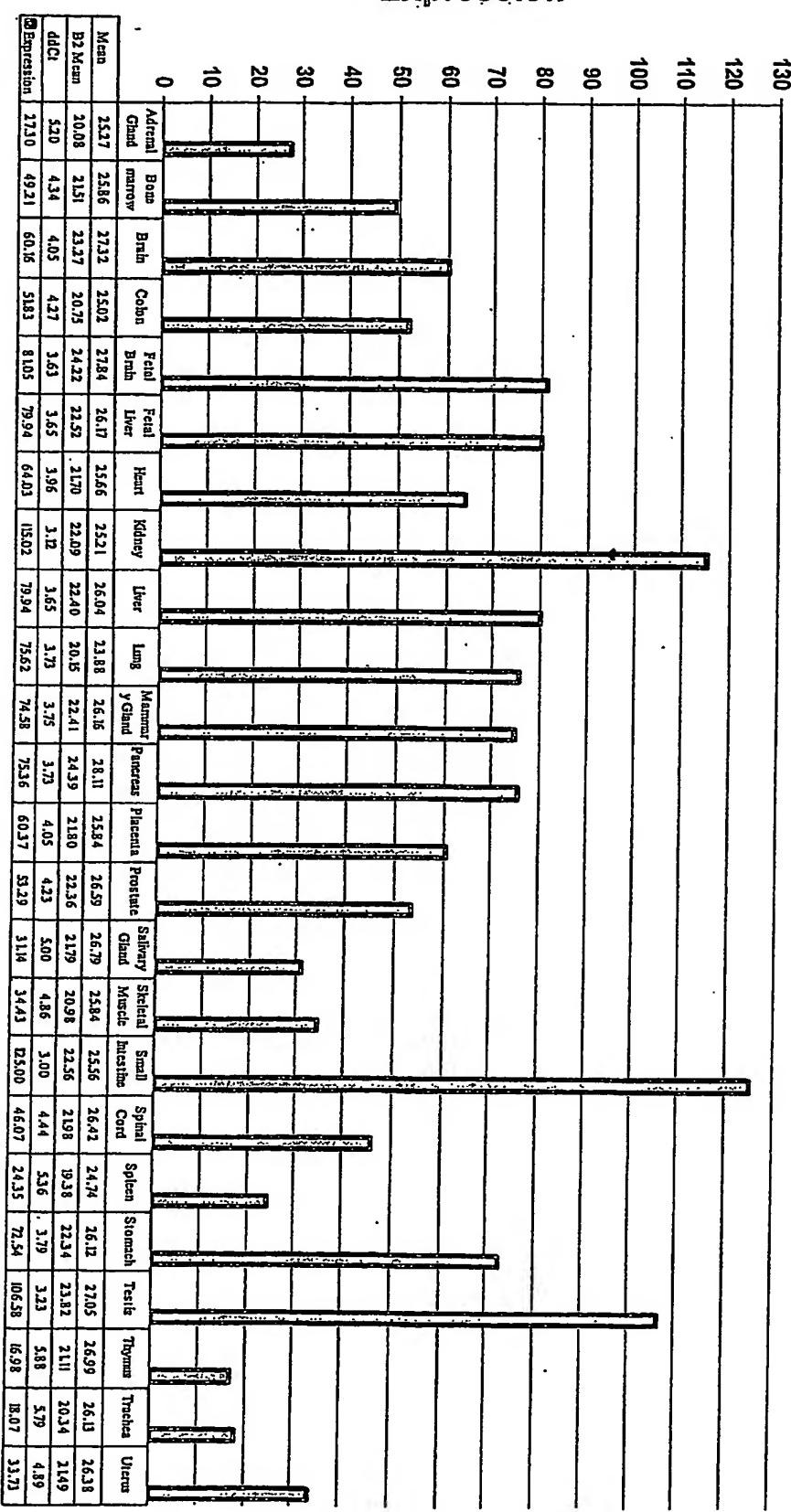


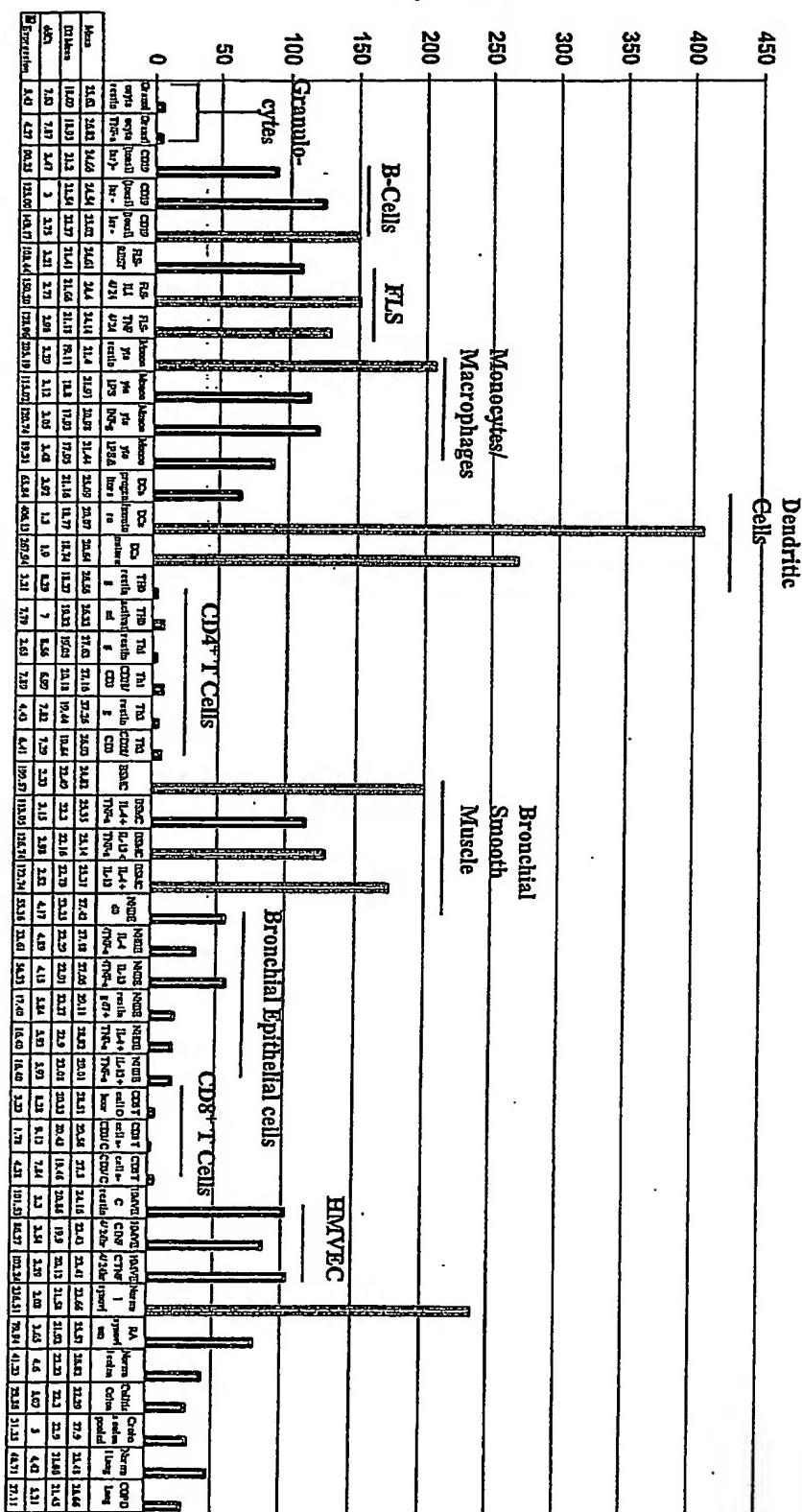
**CatZ Expression Profile on HOP 1.2.1 (normalized to beta 2
microglobulin)**

FIG. 1
Expression



CatZ Expression Profile on HIP 1.1.1(normalized to beta 2 microglobulin)

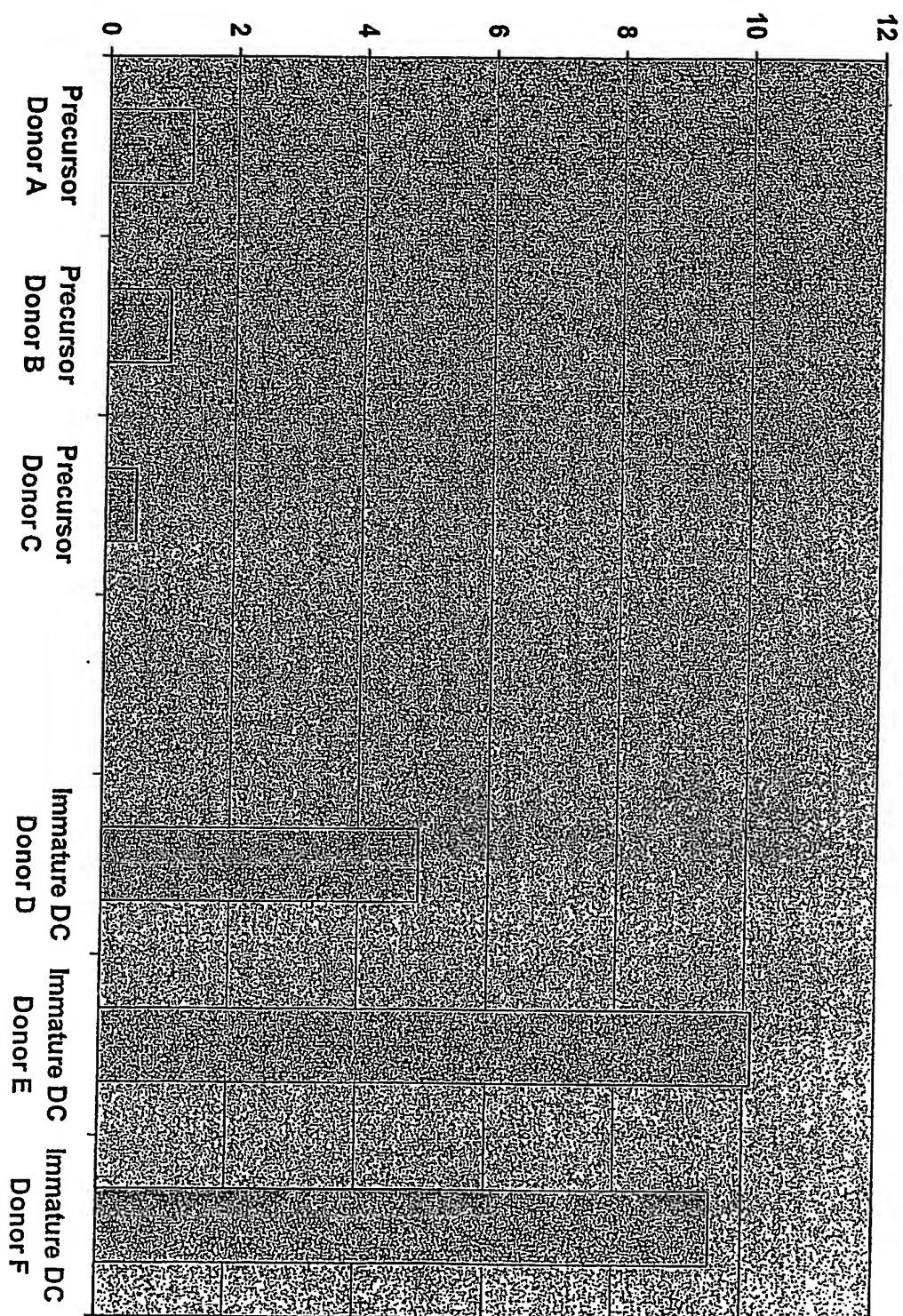
FIG. 2
Expression

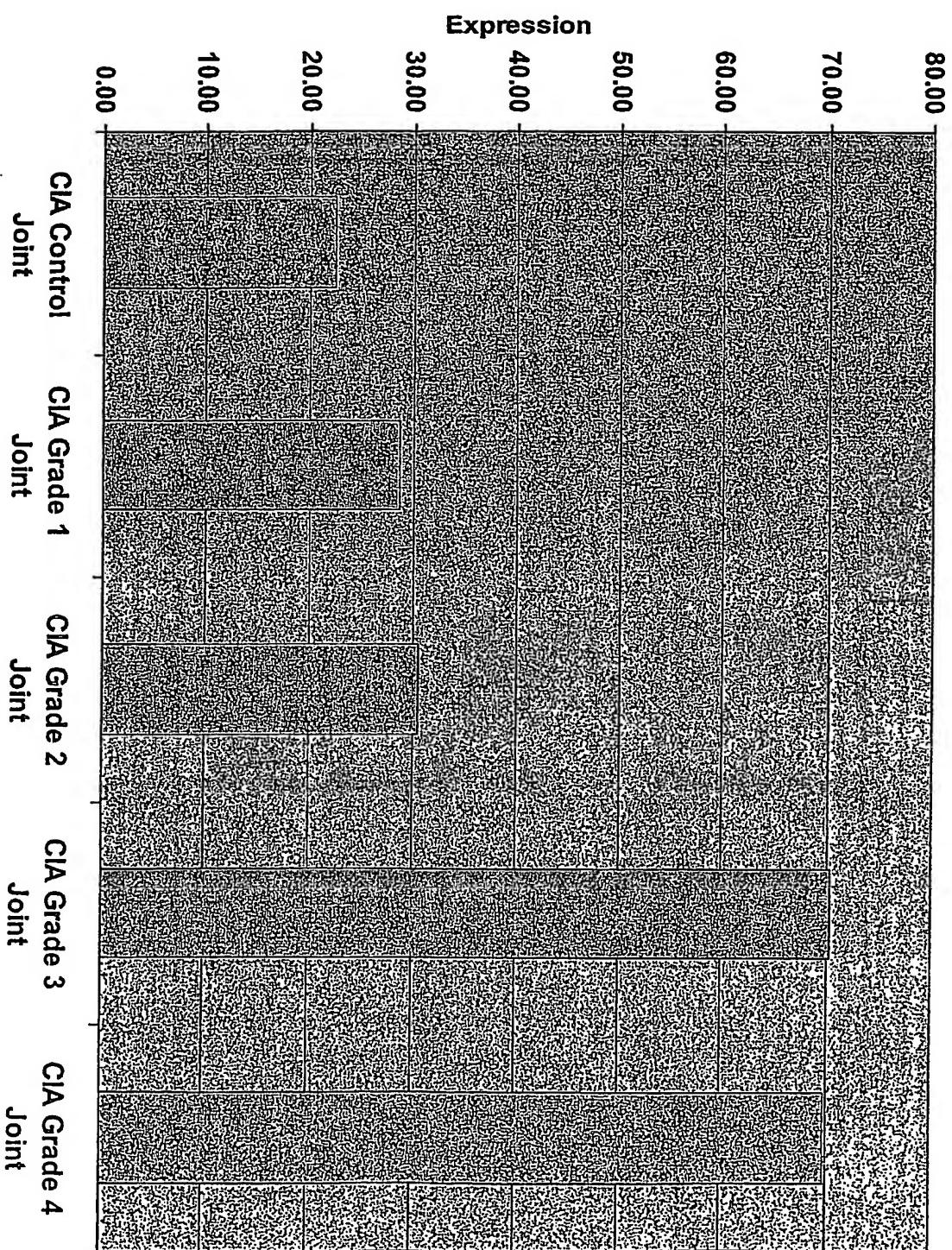


Cathepsin Z mRNA upregulated in immature dendritic cells

FIG. 3

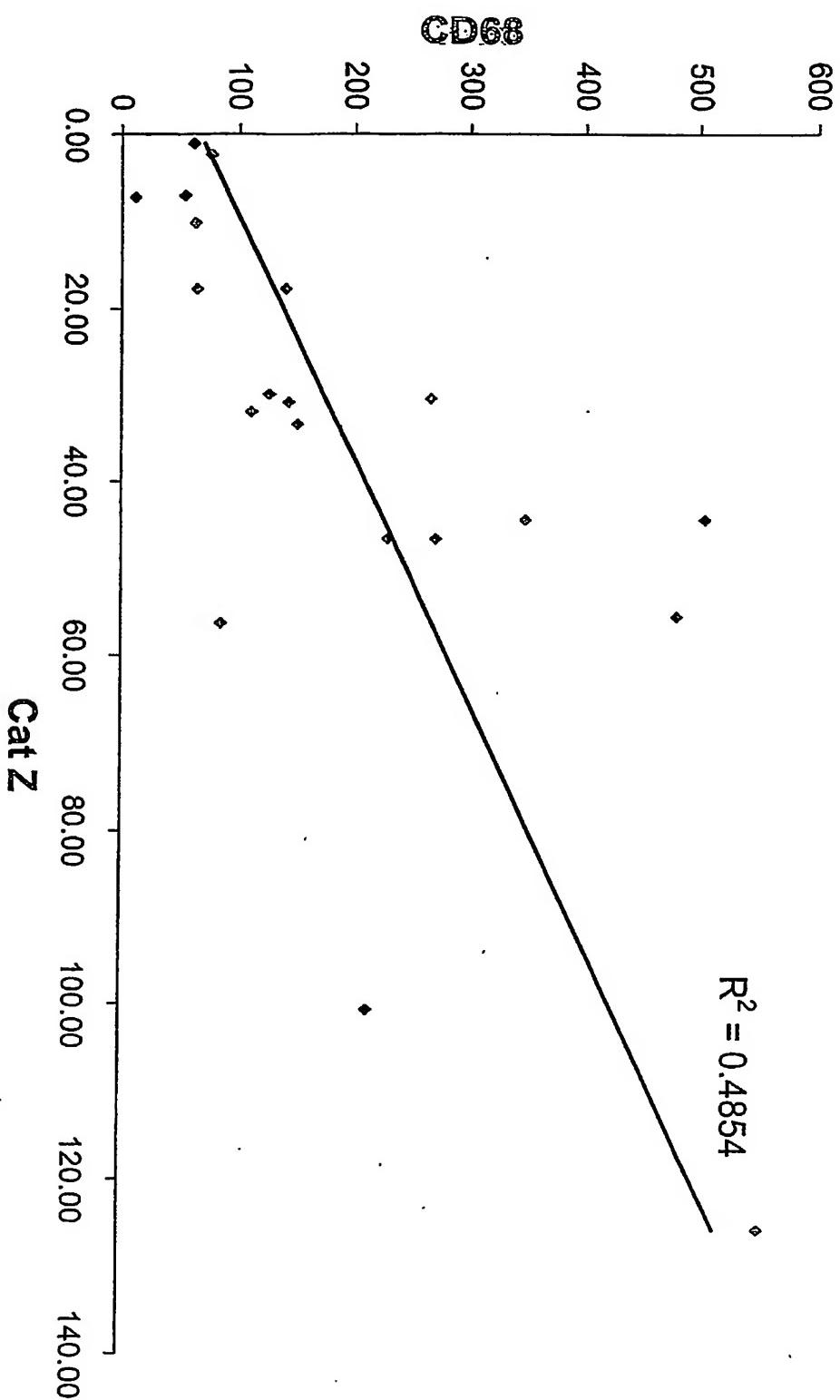
Fold change



Increased Cathepsin Z mRNA expression in mouse CIA model**FIG. 4**

Correlate of Expression in Synovium Samples

FIG. 5



Correlation of Expression in Synovium Samples

FIG. 6

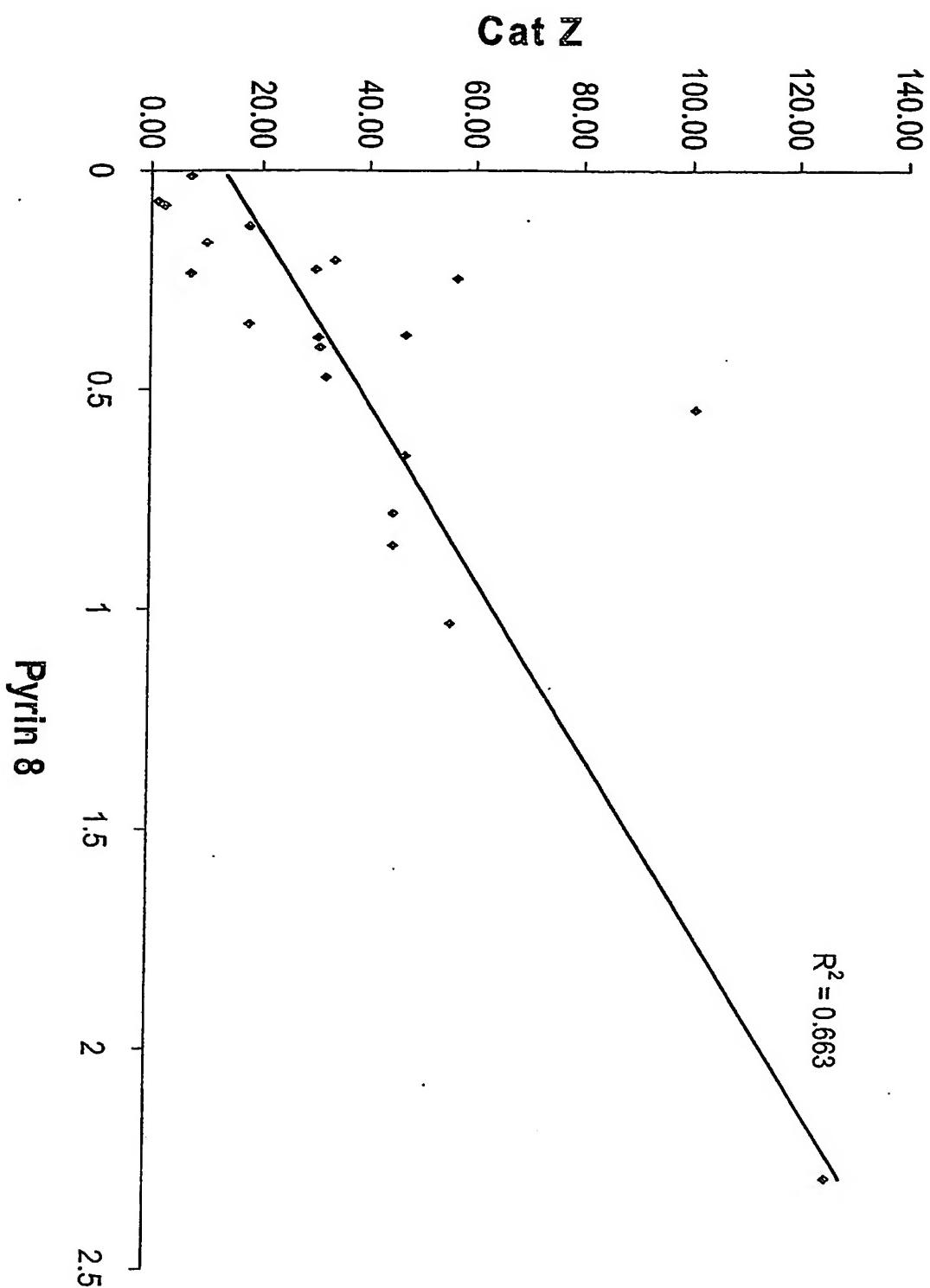
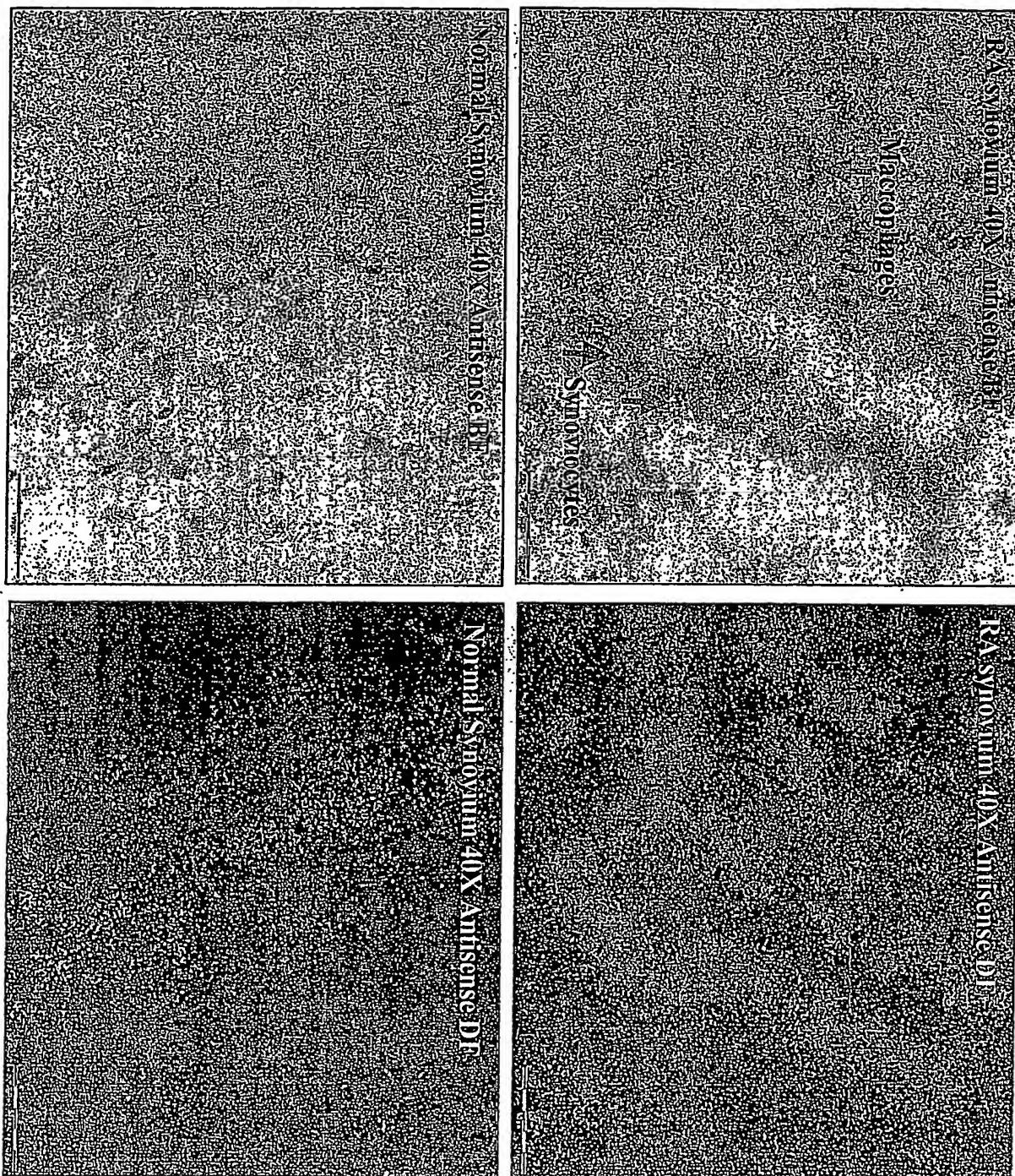


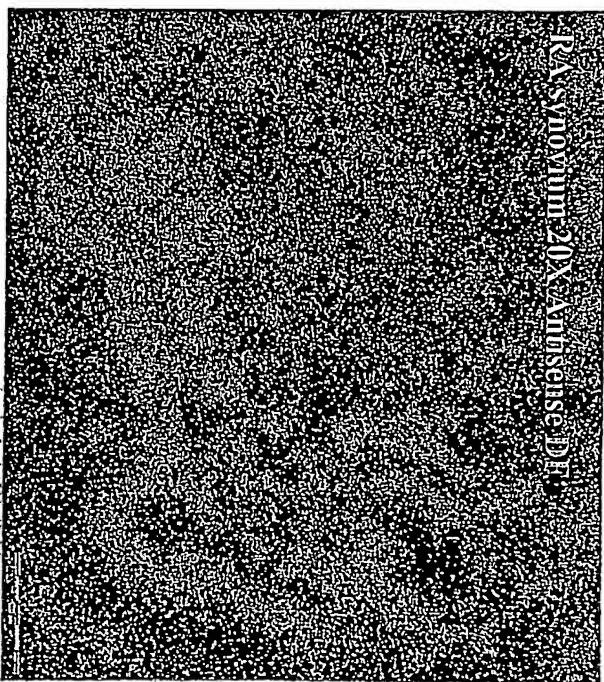
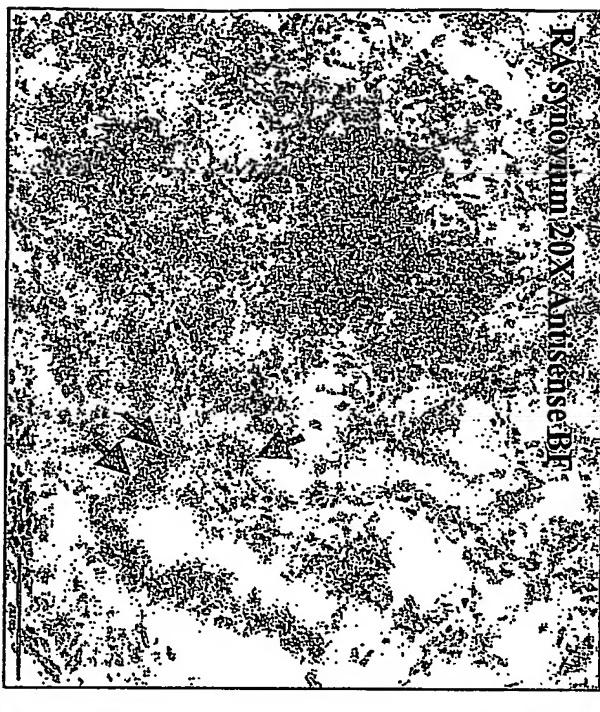
FIG. 7

Cathepsin-Z expression in RA Synovium (Pen248)



Cathepsin-Z expression in RA Synovium (Pen248)

FIG. 8



↑
Synoviocytes
↑
Macrophages
↑
Lymphocytes

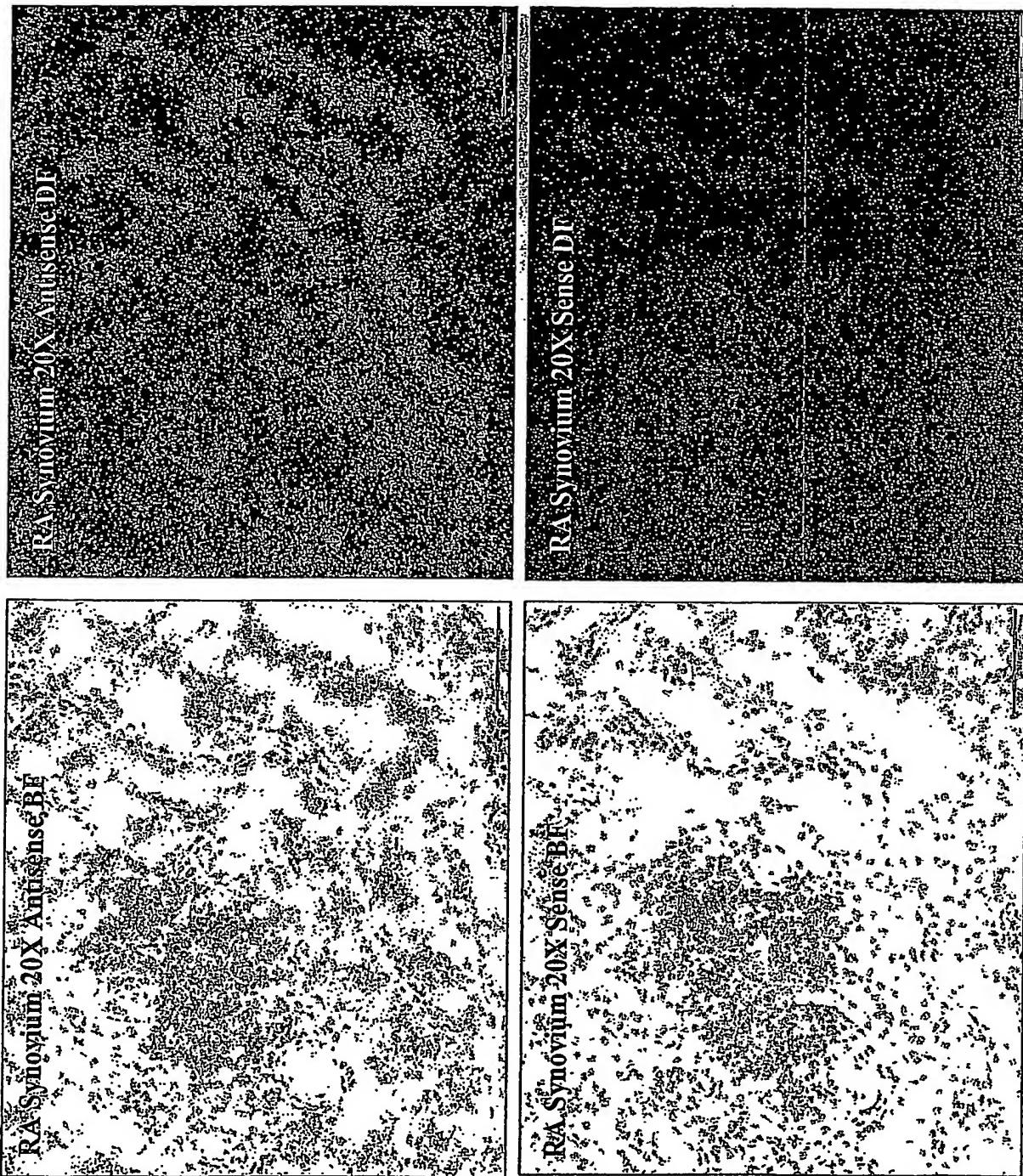
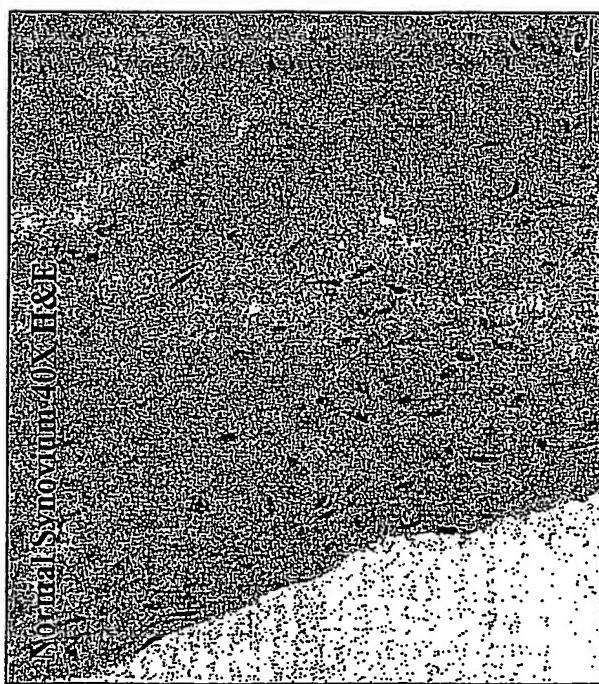
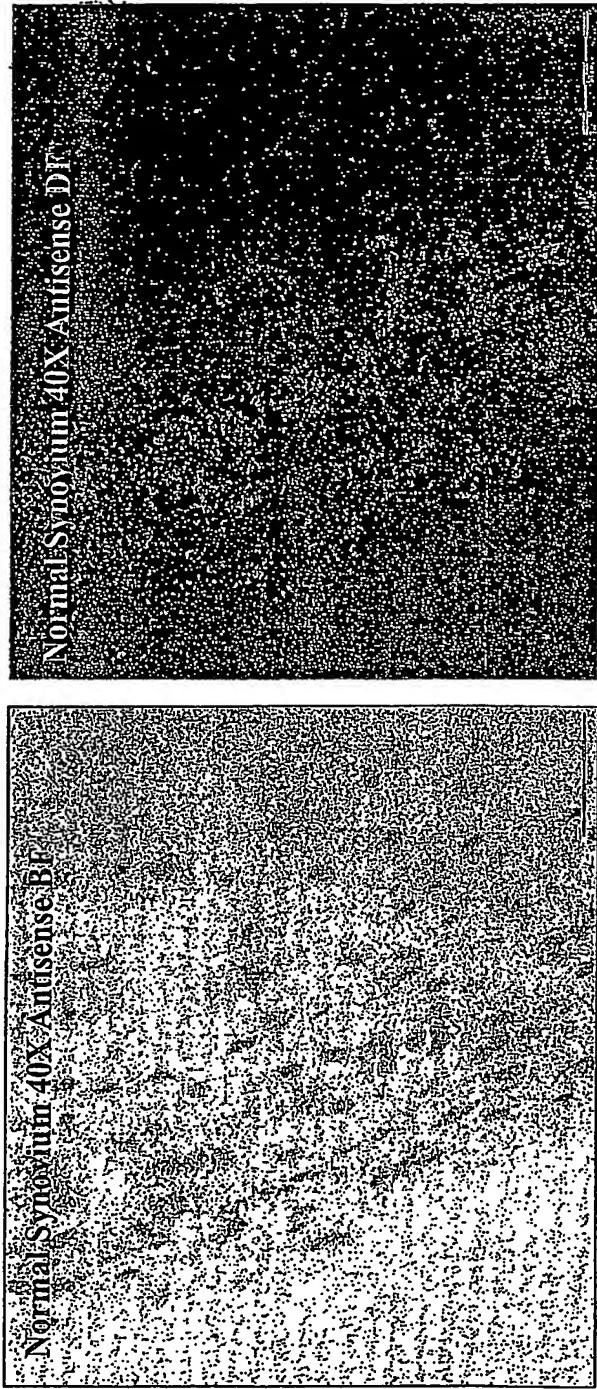
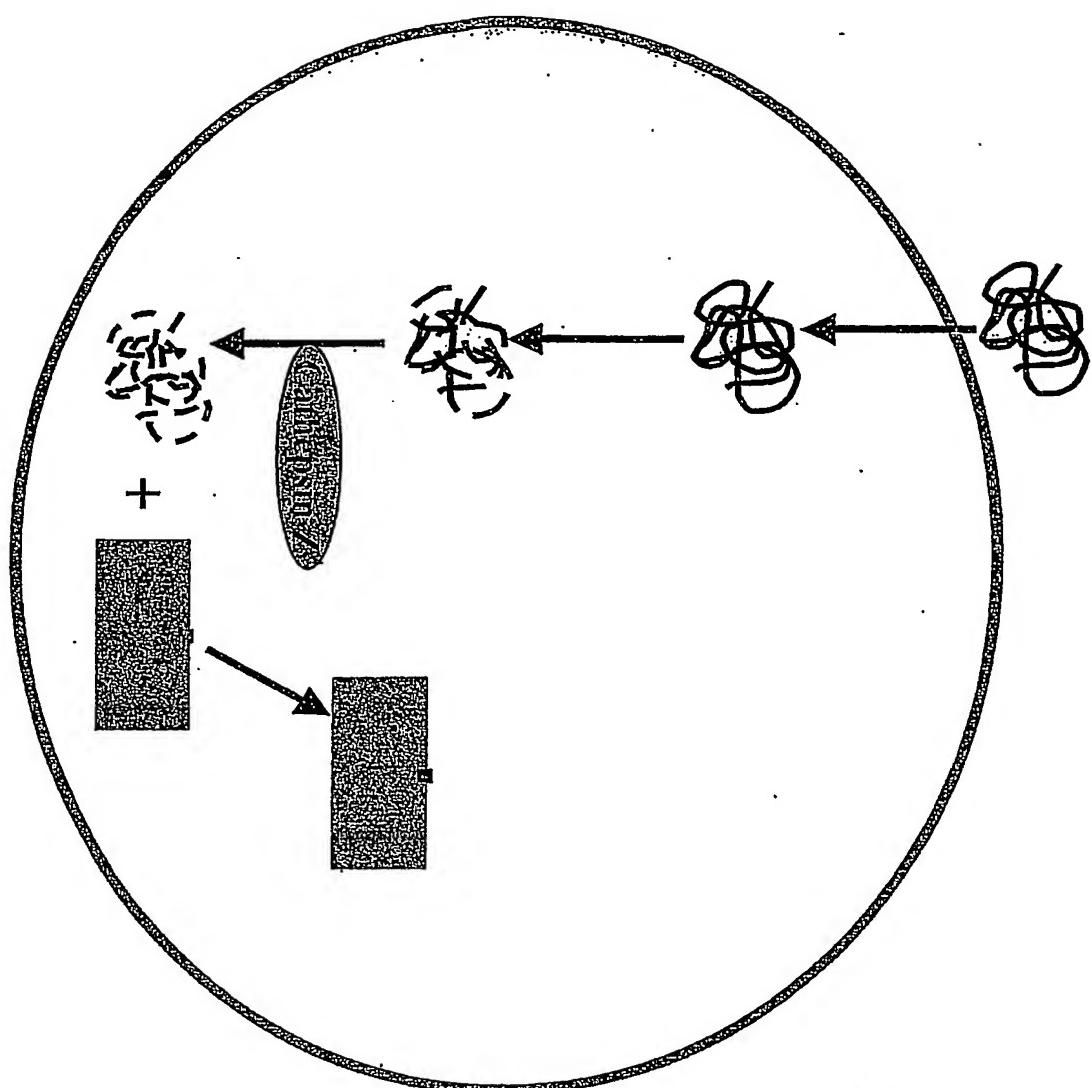
FIG. 9**Cathepsin-Z expression in RA Synovium (Pen248)**

FIG. 10**Cathepsin-Z expression in Normal Synovium (Pen227)**

Model of Cathepsin Z's role in Antigen Processing

FIG. 11



Increased Cathepsin Z activity

↓
Increased dendritic cell
antigen presentation

↓
Increased Th1 cell activation
and differentiation

↓
Increased pathology in
rheumatoid arthritis and
multiple sclerosis

Upregulation of Cathepsin Z mRNA in EAE model brain

FIG. 12

